

The listing of claims will replace all prior versions, and listings, of claims in the application:

1. **(Cancelled)**
2. **(Currently Amended)** A spool comprising: a hub sandwiched between two flanges at least one of said flanges including at least one smoothly curving arcuate fiber groove on a side facing said hub, said fiber groove extending substantially to the outer edge of said flange, said groove being at an angle θ relative to the tangent line to the periphery of said flange, said groove being capable of reversing the direction of fiber ~~The spool according to claim 1,~~ wherein said angle θ is less than 15 degrees.
3. **(Original)** The spool according to claim 2, wherein said angle θ is less than 5 degrees.
4. **(Original)** The spool according to claim 2, wherein said angle θ is less than 3 degrees.
5. **(Currently Amended)** The spool according to claim 2 ~~4~~, wherein said flange has a plurality of fiber grooves, each of said fiber grooves being characterized by a different bend radius R_i , ~~at least one of said fiber grooves extending at said angle θ substantially to the outer edge of said flange.~~
6. **(Currently Amended)** The spool according to claim 2 ~~5~~, wherein said fiber grooves are semicircular and are characterized by different radii of curvature.
7. **(Currently Amended)** A fiber spool comprising: a hub sandwiched between two flanges at least one of said flanges including at least one smoothly curving arcuate fiber groove on a side facing said hub, said fiber groove extending substantially to the outer edge of said flange, said groove being at an angle θ relative to the tangent line to the periphery of said flange, The spool according to claim 1, said fiber spool further

containing fiber, wherein said fiber groove ~~allows the fiber to reverse~~ reverses fiber direction, so that fiber leads point in the same direction.

8. **(Currently Amended)** A spool comprising: a hub sandwiched between two flanges at least one of said flanges including at least one smoothly curving arcuate fiber groove on a side facing said hub, said fiber groove extending substantially to the outer edge of said flange, said groove being at an angle θ relative to the tangent line to the periphery of said flange, said groove being capable of reversing the direction of fiber ~~The spool according to claim 1,~~ wherein said flange includes at least two fiber grooves, one of said fiber grooves allows the exiting fiber to reverse direction, so that fiber leads point in the same direction, and another one of said fiber grooves allowing the fiber leads to point in opposing directions.

9. **(Currently Amended)** A method for making a spool comprising the steps of:

- (i) providing at least two trimable flange preforms, each containing a plurality of fiber grooves, each of said fiber grooves being characterized by a different bend radius R_i ;
- (ii) trimming said preforms to a desired size, thereby producing a flanges of desired diameter, while cutting at least one groove and maintaining at least one groove of said plurality of fiber grooves extending substantially to the outer edge of said flange, said groove being at an angle θ relative to the tangent line to the periphery of said flange so that said groove with a groove angle that is capable of maintaining maintains desired bend radius of an optical fiber;
- (iii) providing a hub;
- (iv) assembling the hub and the flanges into the spool.

10. **(Original)** A method according to claim 9, further including the step of winding fiber around said hub.

11. **(Canceled)**

12. **(Currently Amended)** A flange preform suitable for making flanges of various sizes, said flange including at least one fiber groove and trimable material, so that when said trimable material is cut off to form a flange of a specified outer diameter, said fiber groove extends substantially to the outer edge of said flange, said groove being at an angle θ relative to the tangent line to the periphery of said flange, said groove being capable of reversing the direction of fiber. ~~The flange preform according to claim 11,~~ wherein said angle θ is less than 5 degrees.